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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-07-02-09** **Date: 24-01-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/48/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-01-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.77	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-07-02-09** **Date: 19-02-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/48/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-01-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-07-02-09** **Date: 24-01-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/48/18-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-01-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-01-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	243	243	1.6	98.4	90-100
3	20 mm	7877	8120	54.1	45.9	30-70
4	10 mm	3900	12020	80.1	19.9	10-35
5	4.75 mm	2587	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-07-02-09** **Date: 24-01-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.37	–
5	Bulk Density(Compacted) (Kg/l)	1.44	–
6	Water Absorption(%)	0.24	–

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-07-02-09** **Date: 23-01-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer Reference	:	EE(Project)/Ynk Zone/WO/48/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-01-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	294	294	5.9	94.1	90-100
3	10 mm	2639	2933	58.7	41.3	25-55
4	4.75 mm	1815	4748	95.0	5.0	0-10
5	Pan	252	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-07-02-09** **Date: 23-01-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**8.7**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.1**	
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.4**	_
5	Bulk Density(Compacted) (Kg/l)	**1.45**	_
6	Water Absorption(%)	**0.33**	_
7	Aggregate crushing Value(%)	**24.6**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**25.2**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-07-02-09** **Date: 23-01-19**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07

Agency : Executive Engineer, KRIDL, Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/48/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-01-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 21-01-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	26	26	2.6	97.4	90-100	90-100	90-100	95-100
3	2.36 mm	56	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	241	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	205	528	52.8	47.2	15-34	35-59	60-79	80-100
6	300 micron	203	731	73.1	26.9	5-20	8-30	12-40	15-50
7	150 micron	189	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-07-02-09** **Date: 23-01-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.6	–
2	Specific Gravity	2.6	–
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-07-02-09** **Date: 28-01-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/48/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	25-01-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	512	654	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.617	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	544	669	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-07-02-09**	**Date: 02-02-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07	
Agency	:	Executive Engineer, KRIDL, Bangalore.	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/48/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	29-01-19	
Sample Type /Size	:	Precast Cover Slab(100mm)	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	29/01/2019	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.117	4477	80.8	18.0	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.123	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.117	4476	81.5	18.2	16.9	21.2

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2019-07-02-09** **Date: 08-02-19**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07

Agency : Executive Engineer, KRIDL, Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/48/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-02-19

Sample Type /Size : Precast Cover Slab(200mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 04/02/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.52	200.47	2.115	17791	180.8	10.2	9.5	11.8
2	Cover Slab-2	150.49	200.59	2.123	17784	182.5	10.3	9.5	11.9
3	Cover Slab-3	150.50	200.54	2.117	17786	181.6	10.2	9.5	11.9

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2019-07-02-09**	**Date: 13-02-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07	
Agency	:	Executive Engineer, KRIDL, Bangalore.	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/48/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	09-02-19	
Sample Type /Size	:	CC Kerb Stone/ 450*200*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	09/02/2019	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	150.02	202.51	2.864	17673	142.3	8.1	8.1	10.1
2	B	150.03	206.49	2.794	17675	145.2	8.2	8.2	10.3
3	C	150.01	201.50	2.815	17670	145.2	8.2	8.2	10.3

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-07-02-09** **Date: 23/02/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07

Agency : Executive Engineer, KRIDL, Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/48/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-02-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/02/2019	23/02/2019	149.66 X 149.59 X 149.64	22388	**8.171**	416.8	18.6	18.5
2	Drain Bottom Slab Concrete	M20	16/02/2019	23/02/2019	150.58 X 151.45 X 151.38	22806	**8.406**	418.5	18.3	
3	Drain Bottom Slab Concrete	M20	16/02/2019	23/02/2019	149.07 X 150.69 X 150.35	22464	**8.904**	415.1	18.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-07-02-09** **Date: 16/03/2019**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Amruthalli Main Road from Reliance Fresh to Amruthalli Circle in Ward No.07
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/48/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/02/2019	16/03/2019	150.28 X 150.39 X 149.00	22601	**8.998**	531.5	23.5	23.3
2	Drain Bottom Slab Concrete	M20	16/02/2019	16/03/2019	149.66 X 151.32 X 151.81	22648	**8.020**	507.9	22.4	
3	Drain Bottom Slab Concrete	M20	16/02/2019	16/03/2019	150.66 X 150.11 X 149.17	22616	**8.187**	541.4	23.9	

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Samples will be disposed after 90 days from the date of issue of test certificate

NDP
AC

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

****End of Report****

FOR CIVIL Pro.
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Authorized Signatory
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